	Type	L#	Hits	Search Text	DBs	Time Stamp	Comme	Error Defini tion	Erro
	BRS	L1	1747	botulinum adj (toxin or neurotoxin)	US-PGPUB; USPAT; EPO; 2006/04/04 JPO; DERWENT 10:01	2006/04/04 10:01			
7	BRS	L2	115731	pain	US-PGPUB; USPAT; EPO; JPO; DERWENT	2006/04/04 10:01			
_ ₆	BRS	L3	11506	2 same (post-operative or surgery)	US-PGPUB; USPAT; EPO; JPO; DERWENT	2006/04/04 10:02			
4	BRS	1	67	1 same 3	US-PGPUB; USPAT; EPO; 2006/04/04 JPO; DERWENT	2006/04/04 10:08			
2	BRS	LS	132	aoki adj kei.in.	US-PGPUB; USPAT; EPO; 2006/04/04 JPO; DERWENT	2006/04/04 10:36			
. 9	BRS	L6	9	aoki adj roger.in.	US-PGPUB; USPAT; BPO; 2006/04/04 JPO; DERWENT 10:36	2006/04/04 10:36			
7	BRS	L7	16	cui adj minglei.in.	US-PGPUB; USPAT; EPO; 2006/04/04 JPO; DERWENT	2006/04/04 10:36			
∞	BRS	L8	49	jenkins adj stephen.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	2006/04/04 10:36			
6	BRS	F)	175	L5 or L6 or L7 or L8	US-PGPUB; USPAT; EPO; JPO; DERWENT	2006/04/04 10:36			
10	BRS	L10	18	4 and 9	US-PGPUB; USPAT; EPO; 2006/04/04 JPO; DERWENT 10:36	2006/04/04 10:36			

(FILE 'HOME' ENTERED AT 10:37:34 ON 04 APR 2006)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT

10:38:08 ON 04 APR 2006

- L1 30132 S BOTULINUM (W) (TOXIN OR NEUROTOXIN)
- L2 903941 S PAIN
- L3 101136 S L2 (P) (POST-OPERATIVE OR SURGERY)
- L4 160 S L1 (P) L3
- L5 73 DUPLICATE REMOVE L4 (87 DUPLICATES REMOVED)
- L6 28315 S L2 (10A) (POST-OPERATIVE OR SURGERY)
- L7 36 S L1 (P) L6
- L8 13 DUPLICATE REMOVE L7 (23 DUPLICATES REMOVED)
- L9 2060 S L2 (10A) INCISION?
- L10 1 S L1 (P) L9
- L11 0 S L10 NOT L6
- L12 19 S L5 AND PY <2001
- L13 16 S L12 NOT L8
- L14 12758 S AOKI K?/AU
- L15 1002 S AOKI R?/AU
- L16 1305 S CUI M?/AU
- L17 4265 S JENKINS S?/AU
- L18 19299 S L14 OR L15 OR L16 OR L17
- L19 219 S L18 AND L1
- L20 4 S L19 AND L3
- L21 4 DUPLICATE REMOVE L20 (0 DUPLICATES REMOVED)
- L22 4 S L21 NOT (L8 OR L13)

 $^{=&}gt; \log y$

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FILE 'MEDLINE' ENTERED AT 10:38:08 ON 04 APR 2006
FILE 'CAPLUS' ENTERED AT 10:38:08 ON 04 APR 2006
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FILE 'AGRICOLA' ENTERED AT 10:38:08 ON 04 APR 2006
=> s botulinum (w) (toxin or neurotoxin)
         30132 BOTULINUM (W) (TOXIN OR NEUROTOXIN)
L1
=> s pain
        903941 PAIN
=> s 12 (p) (post-operative or surgery)
        101136 L2 (P) (POST-OPERATIVE OR SURGERY)
=> s 11 (p) 13
           160 L1 (P) L3
=> duplicate remove 14
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L4
             73 DUPLICATE REMOVE L4 (87 DUPLICATES REMOVED)
=> s 12 (10a) (POST-OPERATIVE OR SURGERY)
         28315 L2 (10A) (POST-OPERATIVE OR SURGERY)
=> s 11 (p) 16
            36 L1 (P) L6
=> duplicate remove 17
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L7
             13 DUPLICATE REMOVE L7 (23 DUPLICATES REMOVED)
=> d 18 1-13 ibib abs
    ANSWER 1 OF 13 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights
     reserved on STN
ACCESSION NUMBER:
                    2005160376 EMBASE
TITLE:
                    [The use of botulinum toxin type A for pain management].
                    AGRI TEDAVISINDE BOTULINUM TOKSINI TIP A KULLANIMI.
AUTHOR:
                    Tuzuner F.; Asik I.
CORPORATE SOURCE:
                    I. Asik, Kennedy Cad 98/2, K.Esat, Ankara, Turkey.
                    iasik@yahoo.com
SOURCE:
                    Anestezi Dergisi, (2005) Vol. 13, No. 1, pp. 1-9. .
                    Refs: 44
                    ISSN: 1300-0578 CODEN: ADNECY
COUNTRY:
                    Turkey
DOCUMENT TYPE:
                    Journal; General Review
FILE SEGMENT:
                    800
                            Neurology and Neurosurgery
                            Anesthesiology
                    024
                    030
                            Pharmacology
                    037
                            Drug Literature Index
                    038
                            Adverse Reactions Titles
```

SUMMARY LANGUAGE: Turkish; English

LANGUAGE:

Turkish

Entered STN: 28 Apr 2005 ENTRY DATE:

Last Updated on STN: 28 Apr 2005

AB ***Botulinum*** ***toxin*** type A (BTX-A) has been used clinically for a number of disorders believed to be due to overactive striated or smooth muscles. Botullinum toxin has been shown to be effective for the treatment of various dystonic conditions such as blepharospasm, spasmodic torticollis, spasmodic dysphonia, and facial spasm. In addition to reducing muscle hyperactivity and spasm, BTX-A treatment often reduces the pain associated with cervical dystonia, achalasia, and rectal fissures. After irreversibly binding to presynaptic cholinergic nerve terminals, ***botulinum*** ***toxin*** the release of acetylcholine, resulting in sustained muscle relaxation, which lasts until regeneration (reinnervation) of the nerve terminals is accomplished. Preliminary evidence suggests that it may also be beneficial in the treatment of chronic low back pain associated with muscle spasm. This review discusses the historical development of botox, its indications, contra-indications and side effects, the doses prescribed for various disorders, the mechanism of action and the use of botox in the treatment of ***pain*** conditions including headache, myofascial ***pain*** , and failed back ***surgery*** syndrome.

L8ANSWER 2 OF 13 MEDLINE on STN DUPLICATE 1

ACCESSION NUMBER: 2004466086 MEDLINE PubMed ID: 15376476 DOCUMENT NUMBER:

TITLE: Pallidal deep brain stimulation in cervical dystonia:

clinical outcome in four cases.

AUTHOR: Eltahawy H A; Saint-Cyr J; Poon Y Y; Moro E; Lang A E;

Lozano A M

CORPORATE SOURCE: Toronto Western Hospital, Division of Neurosurgery,

Toronto, Ontario, Canada.

SOURCE: The Canadian journal of neurological sciences. Le journal

canadien des sciences neurologiques, (2004 Aug) Vol. 31,

No. 3, pp. 328-32.

Journal code: 0415227. ISSN: 0317-1671.

PUB. COUNTRY: Canada

DOCUMENT TYPE: (CASE REPORTS)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200410

ENTRY DATE: Entered STN: 20040921

> Last Updated on STN: 20041019 Entered Medline: 20041018

OBJECTIVE: Report on the clinical results following bilateral globus AB pallidus interna deep brain stimulation in four patients (one female and three males) with severe cervical dystonia, mean age 48 years (range 37-67). METHODS: All four patients had failed extensive medical and ***botulinum*** ***toxin*** treatment. The mean duration of the disease was nine years (range 4-15 years). Patients were assessed pre and postoperatively using the Toronto Western Spasmodic Torticollis Rating Scale (TWSTRS). Pre-operatively, the mean TWSTRS total score was 43.2 (range 28-60.5). Posteroventral pallidal deep brain stimulators were inserted using MRI and microelectrode recording guidance. Last follow-up was 15 months for the four patients. RESULTS: Mean reduction in the TWSTRS total scores at last follow- up was 73% (range 61- 85%). Improvement in ***pain*** occurred soon after deep brain stimulation ***surgery*** . Motor improvement was delayed and prolonged over several months. Frequent adjustment in the stimulation parameters was necessary in the first three months. CONCLUSION: Bilateral pallidal stimulation is

effective in management of selected cases of intractable cervical dystonia.

ANSWER 3 OF 13 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN DUPLICATE 2

ACCESSION NUMBER: 2004290916 EMBASE

Botulinum toxin a for vulvodynia: A case report. TITLE:

Gunter J.; Brewer A.; Tawfik O. AUTHOR:

CORPORATE SOURCE: Dr. J. Gunter, Dept. of Obstetrics and Gynecology,

University of Colorado, Health Sciences Center, Denver, CO

80262, United States. jennifer.gunter@uchsc.edu

SOURCE: Journal of Pain, (2004) Vol. 5, No. 4, pp. 238-240. . Refs: 14

ISSN: 1526-5900 CODEN: JPOAB5

PUBLISHER IDENT.: S 1526-5900(04)00634-0

COUNTRY:

United States
Journal: Article

DOCUMENT TYPE: Journal; Article FILE SEGMENT: 008 Neurolog

008 Neurology and Neurosurgery

036 Health Policy, Economics and Management

037 Drug Literature Index 038 Adverse Reactions Titles

039 Pharmacy

LANGUAGE: English

SUMMARY LANGUAGE: English ENTRY DATE: Entered

Entered STN: 29 Jul 2004

Last Updated on STN: 29 Jul 2004

AB Vulvodynia is a poorly understood chronic pain condition, and patients who are refractory to standard therapies often pose a therapeutic dilemma. Current treatment modalities include antidepressants, anticonvulsants, biofeedback, pelvic floor physical therapy, and surgery; however, the options are limited for patients who fail to respond to these treatments. We present a case of refractory vulvodynia with severe dyspareunia successfully managed with a novel therapeutic approach combining

L8 ANSWER 4 OF 13 MEDLINE on STN DUPLICATE 3

ACCESSION NUMBER: 2004025133

DOCUMENT NUMBER: PubMed ID: 14724905

TITLE: Botulinum toxin type A for the treatment of chronic neck

MEDLINE

pain after neck dissection.

AUTHOR: Vasan Claus Wittekindt; Liu Wei-Chi; Klussmann Jens-Peter;

Guntinas-Lichius Orlando

CORPORATE SOURCE: University Hospital Cologne, Department of

Otorhinolaryngology, Head and Neck Surgery,

Joseph-Stelzmann-Strasse 9, D-50924 Koeln, Germany...

claus.wittekind@uni-koeln.de

SOURCE: Head & neck, (2004 Jan) Vol. 26, No. 1, pp. 39-45.

Journal code: 8902541. ISSN: 1043-3074.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200406

ENTRY DATE: Entered STN: 20040116

Last Updated on STN: 20040604 Entered Medline: 20040603

BACKGROUND: Neck dissection ***surgery*** is often followed by chronic head and neck ***pain*** . To date optimal treatment of this type of AB pain is lacking. ***Botulinum*** ***toxin*** type A (BTX-A) has been shown to be effective in the treatment of myofascial pain syndrome and headache. In a pilot study, we wanted to test the effectiveness of BTX-A for the treatment of chronic neck pain after neck dissection. METHODS: Sixteen patients with chronic neck pain after neck dissection were included in this prospective, open study. Eighty to 320 units of BTX-A (Dysport) were injected into muscular trigger points. Outcome measures included chronic pain and shooting pain on the basis of visual analog scales and quality of life improvement (EORTC QLQ-C-30; EORTC QLQ-H and N35) before and 4 weeks after treatment. RESULTS: Patients showed a significant reduction in chronic pain (4.5 before to 3.3 after treatment, p =,005) and in shooting pain (6.1 before to 4.7 after treatment, p =.005). There was a trend toward improvement in global quality of life (QLQ-C30, p = .097) and an increase on the functional scale "pain" (QLQ-H and N35, p = .071). CONCLUSIONS: BTX-A treatment of subjects with chronic neck pain after neck dissection resulted in a fast and significant reduction of pain. A significant improvement in quality of life may be expected in a longer time course after treatment. Copyright 2004 Wiley Periodicals, Inc.

DOCUMENT NUMBER: PubMed ID: 12907905

Botulinum toxin (botox) reduces pain after TITLE:

hemorrhoidectomy: results of a double-blind, randomized

study.

Davies Justin; Duffy David; Boyt Nicholas; Aghahoseini AUTHOR:

Assad; Alexander David; Leveson Stephen

CORPORATE SOURCE: Department of Colorectal Surgery, York District Hospital,

York, United Kingdom.

Diseases of the colon and rectum, (2003 Aug) Vol. 46, No. SOURCE:

8, pp. 1097-102.

Journal code: 0372764. ISSN: 0012-3706.

United States PUB. COUNTRY: DOCUMENT TYPE: (CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

(RANDOMIZED CONTROLLED TRIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200310

Entered STN: 20030809 ENTRY DATE:

> Last Updated on STN: 20031003 Entered Medline: 20031002

AΒ PURPOSE: Pain after hemorrhoidectomy appears to be multifactorial and dependent on individual pain tolerance, mode of anesthesia, postoperative analgesia, and surgical technique. Spasm of the internal sphincter is believed to play an important role. The aim of this study was to assess ***toxin*** the role of ***botulinum*** in reducing pain after Milligan-Morgan hemorrhoidectomy. METHODS: This was a double-blind study of 50 consecutive patients undergoing Milligan-Morgan hemorrhoidectomy and assigned to an internal sphincter injection of 0.4 ml of solution ***botulinum*** ***toxin*** containing either (20 U; Botox) or normal saline. Patients were managed according to standardized perioperative analyesic and laxative regimens. Pain was assessed by use of daily visual analog scores and analgesia requirements for the first seven postoperative days. RESULTS: Patients randomized to receive ***toxin*** had lower daily average and maximal ***botulinum*** visual analog scores throughout the study period. The difference reached significance on both Day 6 (P < 0.05) and Day 7 (P < 0.05). There was no significant difference (P = 0.12) in morphine requirements in the first 24 hours (botulinum group, 16 (range, 6-27) mg; placebo arm, 22 (range, 13-41) mg). Patients who received Botox used 19 (range, 8-36) coproxamol tablets in the first seven days after surgery compared with 23 (range, 10-40) in the placebo arm (P = 0.63). CONCLUSIONS: Those patients who had ***botulinum*** ***toxin*** had significantly less ***pain*** toward the end of the first week after ***surgery*** . Reduction in spasm within the internal sphincter is the presumed mechanism of action. This is the first reported randomized, controlled trial using ***botulinum*** ***toxin*** in hemorrhoidectomy.

ANSWER 6 OF 13 MEDLINE on STN DUPLICATE 5

ACCESSION NUMBER: 2003348371 MEDLINE DOCUMENT NUMBER: PubMed ID: 12881840

TITLE: Use of botulinum toxin type A on orthopedics: a case

AUTHOR: Saenz Ana; Avellanet Merce; Garreta Roser

CORPORATE SOURCE: Rehabilitation Department, Hospital Nostra Senyora de

Meritxell, Andorra, Spain.. asgandorra@hotmail.com

SOURCE: Archives of physical medicine and rehabilitation, (2003

Jul) Vol. 84, No. 7, pp. 1085-6.

Journal code: 2985158R. ISSN: 0003-9993.

PUB. COUNTRY: United States DOCUMENT TYPE: (CASE REPORTS)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 200308

ENTRY DATE:

Entered STN: 20030726

Last Updated on STN: 20030813 Entered Medline: 20030812

AB ***Botulinum*** ***toxin*** type A is effective in treating neurologic entities with increased muscle tone. Few reports show the benefits of this treatment for orthopedic conditions. We present the case of a 54-year-old man who manifested bilateral pectoralis major stiffness and bilateral shoulder pain; he had a score of 6 on a visual analog scale (VAS). Complex regional ***pain*** syndrome (type I) after cardiac ***surgery*** , which had already been resolved, was significant in the patient's clinical background. On examination, neither increases in muscle tone nor signs of tendinous or joint pathology was found. However, the patient experienced significant pain when both pectorals were stretched. The patient's Constant score, a validated scale of shoulder function, was 45/100 on the right shoulder and 41/100 on the left. The patient's shoulder stiffness and pain neither responded to rehabilitation (stretching exercises, passive mobilization, electrostimulation) nor to oral medication (alprazolam, gabapentin). Despite the lack of increased muscle tone, we decided to administer ***botulinum*** type A to control pain. Subsequently, pain intensity was reduced to 4 on a VAS on both sides, and functionality improved (Constant scale score, 62 on the right side; 60 on the left). This improvement enabled the patient to resume his job as a building supervisor, which required active involvement in physical construction work.

L8 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:964907 CAPLUS

DOCUMENT NUMBER: 138:11436

TITLE: Use of botulinum toxin for the treatment of pain,

including neuralgia-associated pain

INVENTOR(S): Borodic, Gary E.; Acquadro, Martin A.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 5 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. --------------A1 20021219 US 2002-40830 20020108 US 2001-260515P P 20010109 US 2002192239 PRIORITY APPLN. INFO.: The invention includes a method of treating pain caused by neuralgia, comprising administering ***botulinum*** ***toxin*** to an afflicted area of a patient. The pain may be caused by trigeminal neuralgia or be assocd. with dental extn. or reconstruction, and may be facial pain. The neuralgia may be assocd. with compressive forces on a sensory nerve, intrinsic nerve damage, demyelinating disease, a genetic disorder, a metabolic disorder, central neurol. vascular disease, or trauma. The invention also includes a method of treating ***post*** ***operative*** incisional wound ***pain*** comprising administering
botulinum ***toxin*** to an afflicted area of a patient. The ***post*** - ***operative*** incisional wound ***pain*** assocd. with medical treatments selected from the group consisting of sinus surgery, removal of an eye, temporal mandibular joint surgery, parotid gland extn. and resection, craniotomy for removal of an intracranial tumor, intra-ocular surgery, acoustic neuroma surgery, reconstructive procedures after tumor resection, radiation therapy for the treatment of cancer, skull base surgery, orbitectomy, facial bone removal, muscle removal, skin removal, and construction of myocutaneous flaps.

L8 ANSWER 8 OF 13 MEDLINE on STN DUPLICATE 6

ACCESSION NUMBER: 2002079619 MEDLINE DOCUMENT NUMBER: PubMed ID: 11807336

TITLE: The interosseous twitch: treatment with botulinum toxin.

AUTHOR: Ramos Richard D; Goodman Bradly S; Kirschberg Gordon J

CORPORATE SOURCE: Alabama Orthopaedic and Spine Center, 52 Medical Park East

Drive, Suite 115, Birmingham, AL 35242, USA.

SOURCE: American journal of physical medicine & rehabilitation /

Association of Academic Physiatrists, (2002 Jan) Vol. 81,

No. 1, pp. 66-7.

Journal code: 8803677. ISSN: 0894-9115.

PUB. COUNTRY: United States DOCUMENT TYPE: (CASE REPORTS)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 200202

ENTRY DATE: Entered STN: 20020128

Last Updated on STN: 20020206 Entered Medline: 20020205

AB We present an 18-yr-old softball player who underwent ***surgery***
for a glenoid labrum tear and subsequent placement of a ***pain***
catheter pump. One month after withdrawing the catheter, the patient
developed uncontrollable movements of her fourth digit. Neurology did not
think it was a true dystonia but administered multiple medications without
any relief of her symptoms. Upon referral, it was thought there was
isolated contraction of the fourth dorsal and second volar interosseous
muscle that was causing her finger to twitch back and forth in the plane
of her hand; ***botulinum*** ***toxin*** was injected into these
two muscles with complete resolution of her symptoms and pain.

L8 ANSWER 9 OF 13 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 2003:108701 BIOSIS DOCUMENT NUMBER: PREV200300108701

TITLE: Treatment of Piriformis Muscle Syndrome with Botulinum

Toxin-A.

AUTHOR(S): Saleemi, Serosh [Reprint Author]

CORPORATE SOURCE: Department of Anesthesia, Louisiana State University Health

Sciences Center, Shreveport, LA, USA

SOURCE: Anesthesiology Abstracts of Scientific Papers Annual

Meeting, (2002) No. 2002, pp. Abstract No. A-879.

http://www.asa-abstracts.com. cd-rom.

Meeting Info.: 2002 Annual Meeting of the American Society

of Anesthesiologists. Orlando, FL, USA. October 12-16,

2002. American Society of Anesthesiologists Inc.

DOCUMENT TYPE: Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 26 Feb 2003

Last Updated on STN: 26 Feb 2003

Piriformis syndrome has been documented as a primary or contributory cause of "sciatica" and low back pain. We present a retrospective review of fifety patients who underwent intrapiriformis muscle botox injection with remarkable pain relief at 6 to 8 weeks follow-up. The demographic characteristics of the study group is given in Table I. Our diagnostic criteria for piriformis muscle syndrome are: Gluteal pain with or without pain radiating down the affected leg in the distribution of sciatic nerve, muscle spasms/pull in leg muscles, positive Beatty's Maneuver with or without the presence of tenderness in buttock, and L5 or S1 sensory nerve root hypoesthesia of A-delta fibers on affected side. V-sNCT, Voltage-Sensitive Nerve Conduction Threshold, is a direct quantitative sensory test (QST), which provides a reproducible (<0.2mA) functional assessment of the peripheral sensory nervous system by measuring that voltage intensity which initiates membrane potential changes, to propagate ***Botulinum*** - ***toxin*** a nerve impulse. The A used for injection is a standardized preparation. 100 Units of BotoxTM in 5 cc of preservative-free 0.9 N saline was injected into the piriformis muscle, under fluroscopic guidance. Results: All patients reported a reduction in pain score. VAS pain score in the study population (n=50) was 8.87+-0.15 prior to treatment and 4.5+-0.2 after treatment (p<0.01). McGill score (n=27) was 40.6 + -3.04 before and 21.5 + -2.51 after the injection (p<0.01), Oswestry (n=27) changed from 25.9+- 1.26 to 11.7 +-1.02(p<0.01) and Roland-Morris (n=27) decreased from 16.0 +- .935 to ***Botulinum*** 20.6+- 1.02 (p<0.01). Discussion is a 150 Kda protein neurotoxin, produced by Clostridium botulinum, which acts presynaptically by inhibiting the release of acetylcholine, thus leading to functional denervation of the muscle . This lasts up to 6 months. The piriformis muscle is a pyramidal muscle, which arises from the ventrolateral aspect of the sacrum from S1-S4, gluteal surface of ilium and the anterior capsule of the sacroiliac joint and passes laterally through the greater sciatic foramen to its insertion on greater trochanter of femur. The signs and symptoms of sciatica caused by piriformis syndrome can be explained by the close relationship of the muscle to sciatic nerve at the sciatic notch. A variety of therapeutic approaches have been suggested for the management of piriformis syndrome like analgesics, application of heat, osteopathic manipulation, and even

surgical resection of piriformis muscle. Except for the latter, none of these modalities offer significant ***pain*** relief, and

surgery is associated with morbidity. Ours is the first review where the effect of intrapiriformis muscle botox has been studied. All of our patients who underwent Botox TM injection to piriformis muscle reported a reduction in pain by 45% or more as well as improvement in their disability scores. Therefore we propose that BotoxTM injection to piriformis muscle is an effective treatment for low back pain and sciatica caused by piriformis syndrome.

L8 ANSWER 10 OF 13 MEDLINE on STN DUPLICATE 7

ACCESSION NUMBER: 2001486200 MEDLINE DOCUMENT NUMBER: PubMed ID: 11528273

TITLE: Treatment of gustatory sweating with botulinum toxin:

special aspects.

AUTHOR: Laskawi R; Rohrbach S

CORPORATE SOURCE: Department of Otolaryngology, Head and Neck Surgery,

University of Gottingen, Germany.. rlaskawi@med.uni-

goettingen.de

SOURCE: ORL; journal for oto-rhino-laryngology and its related

specialties, (2001 Sep-Oct) Vol. 63, No. 5, pp. 294-7.

Journal code: 0334721. ISSN: 0301-1569.

PUB. COUNTRY: Switzerland

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200112

ENTRY DATE: Entered STN: 20010903

Last Updated on STN: 20020124 Entered Medline: 20011231

AB ***Botulinum*** ***toxin*** treatment is an efficient, well-tolerated technique for patients suffering from gustatory sweating, first described by our group. With the experience gained in recent years we were able to improve on some of our skills in the diagnosis and treatment of gustatory sweating and here we wish to focus on some interesting aspects: (1) the necessity for an exact anamnesis before ***botulinum*** ***toxin*** to ensure correct treatment with treatment; (2) the advantages of Minor's test in special situations, for example, when sweating occurs in regions of hairy skin, retroauricular, at the back of the auricle and in areas distant from the site of salivary ***surgery*** ; (3) the reduction of ***pain*** during treatment using an anesthetic ointment containing lidocaine and prilocaine as active substances; (4) intracutaneous injections in areas anterior to the fascia-protected skin of the lateral face-covering mimetic muscles, and (5) the occasional necessity for short-time reinjection in small areas of persistent sweating.

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L8 ANSWER 11 OF 13 MEDLINE on STN DUPLICATE 8

ACCESSION NUMBER: 2000193719 MEDLINE DOCUMENT NUMBER: PubMed ID: 10727482

TITLE: Pattern of premature degenerative changes of the cervical spine in patients with spasmodic torticollis and the impact

on the outcome of selective peripheral denervation.

on the outcome of selective peripheral denervation.

Chawda S J; Munchau A; Johnson D; Bhatia K; Quinn N P;

Stevens J; Lees A J; Palmer J D

CORPORATE SOURCE: National Hospital for Neurology and Neurosurgery, Queen

Square, London, UK.. sanjivchawda@hotmail.com

SOURCE: Journal of neurology, neurosurgery, and psychiatry, (2000

Apr) Vol. 68, No. 4, pp. 465-71.

Journal code: 2985191R. ISSN: 0022-3050.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

AUTHOR:

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200006

ENTRY DATE: Entered STN: 20000616

Last Updated on STN: 20000616 Entered Medline: 20000605

AB OBJECTIVES: To characterise the pattern of and risk factors for degenerative changes of the cervical spine in patients with spasmodic

torticollis and to assess whether these changes affect outcome after selective peripheral denervation. METHODS: Preoperative CT of the upper cervical spine of 34 patients with spasmodic torticollis referred for surgery were reviewed by two radiologists blinded to the clinical findings. Degenerative changes were assessed for each joint separately and rated as absent, minimal, moderate, or severe. Patients were clinically assessed before surgery and 3 months postoperatively by an independent examiner using standardised clinical rating scales. For comparison of means a t test was carried out. To determine whether an association exists between the side of degenerative changes and type of spasmodic torticollis a chi(2) test was used. Changes in severity, disability, and ***pain*** before and after ***surgery*** calculated using a Wilcoxon matched pairs signed ranks test. RESULTS: Fourteen out of 34 patients had moderate or severe degenerative changes. They were predominantly found at the C2/C3 and C3/C4 level and were significantly more likely to occur on the side of the main direction of the spasmodic torticollis (p = 0.015). There was no significant difference in age, sex, duration of torticollis, overall severity, degree of disability, or pain between the group with either no or minimal changes and the group with moderate or severe changes. However, in the second group the duration of inadequate treatment was longer (10.1 v 4.8 years; p=0.009), head mobility was more restricted (p = 0.015), and head tremor was more severe (p = 0.01). At 3 months postoperatively, patients with n or minimal degenerative changes showed a significant improvement in pain and severity whereas no difference was found in those with moderate or severe changes. CONCLUSIONS: Patients with spasmodic torticollis have an increased risk of developing premature degenerative changes of the upper cervical spine that tend to be on the side towards which the head is turned or tilted and compromise outcome after surgery. Effective early treatment of spasmodic torticollis with ***botulinum*** seems to have a protective effect. Patients with spasmodic torticollis and restricted head mobility who do not adequately respond to treatment should undergo imaging of the upper cervical spine. Patients with imaging evidence of moderate or severe degenerative changes seem to respond poorly to selective peripheral denervation.

L8 ANSWER 12 OF 13 MEDLINE on STN DUPLICATE 9

ACCESSION NUMBER: 2000478899 MEDLINE DOCUMENT NUMBER: PubMed ID: 11030639

TITLE: Botulinum toxin for spastic gastrointestinal disorders.

AUTHOR: Hoogerwerf W A; Pasricha P J

CORPORATE SOURCE: University of Texas Medical Branch, Galveston, USA.

SOURCE: Bailliere's best practice & research. Clinical

gastroenterology, (1999 Apr) Vol. 13, No. 1, pp. 131-43.

Ref: 61

Journal code: 100894206. ISSN: 1521-6918.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200010

ENTRY DATE: Entered STN: 20010322

Last Updated on STN: 20010322 Entered Medline: 20001031

AB ***Botulinum*** ***toxin*** (BTX) is one of the most potent inhibitors of acetylcholine from nerve endings, and this accounts for its toxic properties as well as its therapeutic application in a variety of neuromuscular syndromes. This review focuses on the growing use of BTX in the so-called 'spastic' disorders of the gastrointestinal tract. include achalasia, for which the short-term efficacy of the intrasphincteric injection of BTX has been well established. because of the chronicity of this condition, repeated injections of the toxin may be required at regular intervals. In contrast, the relatively short duration of action may be an advantage in disorders such as chronic anal fissure, where the benefit of this therapy has now been demonstrated in hundreds of patients. There are many other sphincteric and non-sphincteric syndromes in the gut for which the efficacy of this agent is being actively tested. These include non-cardiac chest ***post*** - ***operative*** pylorospasm and sphincter of Oddi dysfunction. Skeletal muscle sphincters, such as the upper oesophageal

sphincter or the external anal sphincter/puborectalis muscle, may also be targeted, with good effect. In some of these conditions, the local injection of BTX may serve as a useful therapeutic trial, facilitating the decision to institute more invasive forms of therapy. The cumulative short-term experience with BTX in the gut to date suggests that it is a relatively simple and safe therapy. The use of BTX represents a novel approach for gastrointestinal motility disorders, and the rapidly expanding list of successful applications holds promise for a more widespread use of similar agents in the future. Additional studies on long-term outcome are eagerly awaited.

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L8
     ANSWER 13 OF 13
                         MEDLINE on STN
                                                        DUPLICATE 10
ACCESSION NUMBER: 1998040881
                                  MEDLINE
DOCUMENT NUMBER:
                   PubMed ID: 9373550
                    Frey's syndrome: treatment with botulinum toxin.
TITLE:
                    Bjerkhoel A; Trobbe O
AUTHOR:
CORPORATE SOURCE:
                    Department of Otolaryngology, Lanssjukhuset Ryhov,
                    Jonkoping, Sweden.
                    The Journal of laryngology and otology, (1997 Sep) Vol.
SOURCE:
                    111, No. 9, pp. 839-44.
                    Journal code: 8706896. ISSN: 0022-2151.
PUB. COUNTRY:
                    ENGLAND: United Kingdom
DOCUMENT TYPE:
                    Journal; Article; (JOURNAL ARTICLE)
LANGUAGE:
                    English
FILE SEGMENT:
                    Abridged Index Medicus Journals; Priority Journals
ENTRY MONTH:
                    199712
ENTRY DATE:
                    Entered STN: 19980109
                    Last Updated on STN: 19980109
                    Entered Medline: 19971209
AB
     Frey's syndrome, i.e. gustatory sweating on the cheek, is a fairly common
     embarrassment after parotid gland surgery. New surgical techniques have
     been proposed to avoid this complication, but are not widely in use.
     Hence, there is need for treatment of Frey's syndrome. All surgical and
     topical treatments have drawbacks. This study was set up in order to
     evaluate a recently described treatment. One hundred and two patients
     were interviewed after parotidectomy. Thirty-one of them had noticed
     gustatory sweating and 15 patients underwent Minor's starch iodine test
     before, and after, treatment with intracutaneous injections of
                          ***toxin*** A (Botox, Allergan Inc., USA). Thirteen
       ***botulinum***
     of the patients did not experience any gustatory sweating at follow-up
     (one to 13 months). Minor's starch test showed total disappearance of
     gustatory sweating in 12 of the 15 treated patients. The only side effect
     was a discreet, transitory affection of the orbicularis oris muscle in one
     patient. As this treatment is minimally invasive it could be an
     attractive treatment for Frey's syndrome if the effect is maintained.
    Complaints of local hypoaesthesia and ***pain*** were also common
     after parotid ***surgery***
=> d his
     (FILE 'HOME' ENTERED AT 10:37:34 ON 04 APR 2006)
     FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT
     10:38:08 ON 04 APR 2006
L1
          30132 S BOTULINUM (W) (TOXIN OR NEUROTOXIN)
L2
         903941 S PAIN
L3
         101136 S L2 (P) (POST-OPERATIVE OR SURGERY)
            160 S L1 (P) L3
             73 DUPLICATE REMOVE L4 (87 DUPLICATES REMOVED)
L5
L6
         28315 S L2 (10A) (POST-OPERATIVE OR SURGERY)
             36 S L1 (P) L6
L7
             13 DUPLICATE REMOVE L7 (23 DUPLICATES REMOVED)
L8
=> s 12 (10a) incision?
L9
         2060 L2 (10A) INCISION?
=> s 11 (p) 19
            1 L1 (P) L9
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=> s 110 not 16

L11 . 0 L10 NOT L6

=> s 15 and py <2001
1 FILES SEARCHED...
5 FILES SEARCHED...</pre>

L12 19 L5 AND PY <2001

=> s 112 not 18

L13 16 L12 NOT L8

=> d 113 1-16 ibib abs

L13 ANSWER 1 OF 16 MEDLINE on STN ACCESSION NUMBER: 2001173498 MEDLINE DOCUMENT NUMBER: PubMed ID: 11273544

TITLE: A spectrum of dystonias-clinical features and update on

management.

AUTHOR: Das S K; Choudhary S S

CORPORATE SOURCE: Department of Neuromedicine, Bangur Institute of Neurology,

Calcutta 700 020.

SOURCE: The Journal of the Association of Physicians of India,

(2000 Jun) Vol. 48, No. 6, pp. 622-30. Ref: 37

Journal code: 7505585. ISSN: 0004-5772.

PUB. COUNTRY: India

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200104

ENTRY DATE: Entered STN: 20010417

Last Updated on STN: 20010417 Entered Medline: 20010412

AB Dystonia is an interesting disorder characterized by involuntary movement of the body part or parts leading to abnormal deformed postures. usual signs and symptoms are local ***pain*** , spasm and abnormal movements. Sensory trick is an important clinical phenomenon and is characteristic of dystonia. It is usually separated from other movement disorders such as chorea, athetosis, tics and myoclonus clinically. Various non-dystonic conditions simulate dystonia and need to be separated in view of different line of management. Improved understanding in molecular biology has helped in understanding of the disease. Confusing neuropathology and neurochemistry have deterred the finding of an effective drug, however empirical use of few drugs have improved the gloomy situation. Few conditions such as dopa-responsive dystonia, have definite treatment. Recently use of ***botulinum*** ***toxin*** has provided beneficial response in hyper muscular contraction states such as dystonia and spasticity, ***Surgery*** and other non-medical therapies are effective in few situations.

L13 ANSWER 2 OF 16 MEDLINE ON STN
ACCESSION NUMBER: 2001098701 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11188983

TITLE: Pharmacological and surgical options for the treatment of

cervical dystonia. Adler C H; Kumar R

CORPORATE SOURCE: Department of Neurology, Mayo Clinic Scottsdale, AZ 85259,

USA.

SOURCE: Neurology, ***(2000)*** Vol. 55, No. 12 Suppl 5, pp.

S9-14. Ref: 59

Journal code: 0401060. ISSN: 0028-3878.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

AUTHOR:

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 200102

ENTRY DATE: Entered STN: 20010322

Last Updated on STN: 20010322 Entered Medline: 20010201

AB Cervical dystonia (CD) is a condition in which patients experience involuntary and abnormal head movements, such as tilting, twisting, or

pain . Although the exact extension, often accompanied by pathologic mechanisms underlying idiopathic CD have not yet been identified, a number of therapeutic strategies have been developed to alleviate the symptoms of this disorder. Oral medications include anticholinergic agents, dopamine receptor antagonists, and GABAmimetic agents. These drugs are employed in a trial-and-error manner and have a low rate of efficacy. Localized therapy using ***botulinum*** injections has revolutionized the treatment of CD, providing a high rate of response with a low incidence of side effects. However, as with oral medications, neurotoxin therapy is palliative, not curative, and repeated injections are required. In patients who develop resistance to ***botulinum*** ***toxin*** therapy and who do not achieve an adequate response to, or are intolerant of, oral medications, surgical approaches are appropriate. Among the options for peripheral ***surgery*** , the greatest experience and most consistent results have been achieved with selective dorsal ramisectomy. Recent developments in ***surgery*** suggest that, for more complex forms of CD

L13 ANSWER 3 OF 16 MEDLINE on STN 2000263303 ACCESSION NUMBER: MEDLINE PubMed ID: 10805553

TITLE: Botulinum toxin for the treatment of anal fissure. Fernandez Lopez F; Conde Freire R; Rios Rios A; Garcia AUTHOR: Iglesias J; Cainzos Fernandez M; Potel Lesquereux J

Department of General and Digestive Surgery, Hospital Xeral CORPORATE SOURCE:

or when more widespread dystonia is present, bilateral pallidotomy or globus pallidus deep brain stimulation may be the treatment of choice.

de Galicia, Medical School, University of Santiago de

Compostela, Spain.. cifern@usc.es

SOURCE: Digestive surgery, ***(1999)*** Vol. 16, No. 6, pp.

515-8.

Journal code: 8501808. ISSN: 0253-4886.

PUB. COUNTRY: Switzerland

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200007

DOCUMENT NUMBER:

ENTRY DATE: Entered STN: 20000714

> Last Updated on STN: 20000714 Entered Medline: 20000706

AΒ BACKGROUND: The classic treatment for uncomplicated anal fissure is surgical sphincterotomy, i.e. cutting of the internal anal sphincter, thus eliminating spasm of this muscle and breaking the vicious circle of ***pain*** , spasm and inflammation. Recently, however,

botulinum ***toxin*** has become available for the treatment of muscular dystonias, and thus for anal fissure. In the present study, we investigated the effectiveness of treatment with ***botulinum***

toxin in 76 patients with uncomplicated anal fissure. MATERIAL AND METHOD: The 76 patients received an injection of 40 U of

botulinum ***toxin*** on each side of the fissure. Response was monitored 7, 30 and 90 days later. All patients who did not show clear improvement after 30 days received a second dose of 40 U on each side. RESULTS: After 90 days, 51 patients (67%) showed complete recovery, 19 patients (25%) substantial improvement though not complete recovery, and 6 patients (8%) no significant improvement. Transitory gas incontinence was reported by 2 patients (2.6%), and 1 patient presented hemorrhoidal thrombosis. DISCUSSION: ***Botulinum*** ***toxin*** enables chemical denervation of the internal sphincter, facilitating healing of the anal fissure. Its principal advantages with respect to surgical sphincterotomy are the absence of the general risks of

surgery , and reduced incidence of incontinence, which even if it occurs tends to be transitory. The technique does not require hospitalization and is well tolerated. It appears suitable for the initial treatment of uncomplicated anal fissure, reserving surgical treatment for those cases which fail to response adequately.

L13 ANSWER 4 OF 16 MEDLINE on STN ACCESSION NUMBER: 2000162155 MEDLINE DOCUMENT NUMBER: PubMed ID: 10698329

TITLE: Analgesic effects of botulinum toxin A: a randomized,

placebo-controlled clinical trial.

AUTHOR: Barwood S; Baillieu C; Boyd R; Brereton K; Low J; Nattrass

G; Graham H K

CORPORATE SOURCE: The Department of Orthopaedic Surgery, The Royal Children's

Hospital, Parkville, Victoria, Australia.

SOURCE: Developmental medicine and child neurology, ***(2000***

*** Feb) *** Vol. 42, No. 2, pp. 116-21.

Journal code: 0006761. ISSN: 0012-1622.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: (CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

(RANDOMIZED CONTROLLED TRIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200003

ENTRY DATE: Entered STN: 20000320

Last Updated on STN: 20000320 Entered Medline: 20000308

pain in children with spastic cerebral palsy (CP) AB Postoperative is often attributed to muscle spasm and is difficult to manage using opiates and benzodiazepines. Adductor-release ***surgery*** or prevent hip dislocation in children with spastic CP is frequently performed and is often accompanied by severe postoperative ***pain*** and spasm. A double-blinded, randomized, placebo-controlled clinical trial of 16 patients (mean age 4.7 years) with a mainly spastic type of CP (either diplegic or quadriplegic in distribution) was used to test the hypothesis that a significant proportion of postoperative is secondary to muscle spasm and, therefore, might be reduced by a preoperative chemodenervation of the target surgical muscle by intramuscular injection of ***botulinum*** ***toxin*** A (BTX/A). Compared with the placebo, BTX/A was found to be associated with a reduction in mean ***pain*** scores of 74% (P<0.003), a reduction in mean analgesic requirements of approximately 50% (P<0.005), and a reduction in mean length of hospital admission of 33% (P<0.003). concluded that an important component of postoperative ***pain*** the patient population is due to muscle spasm and this can be managed effectively by preoperative injection with BTX/A. These findings may have implications for the management of ***pain*** secondary to muscle spasm in other clinical settings.

L13 ANSWER 5 OF 16 MEDLINE on STN ACCESSION NUMBER: 1999385306 MEDLINE DOCUMENT NUMBER: PubMed ID: 10458124

TITLE: Therapeutic effects of different doses of botulinum toxin

in chronic anal fissure.

AUTHOR: Minguez M; Melo F; Espi A; Garcia-Granero E; Mora F; Lledo

S; Benages A

CORPORATE SOURCE: Department of Gastroenterology, Clinic Hospital, University

of Valencia, Spain.

SOURCE: Diseases of the colon and rectum, ***(1999 Aug)*** Vol.

42, No. 8, pp. 1016-21.

Journal code: 0372764. ISSN: 0012-3706.

PUB. COUNTRY: United States
DOCUMENT TYPE: (CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199909

ENTRY DATE: Entered STN: 19990921

Last Updated on STN: 20000811 Entered Medline: 19990908

PURPOSE: The aim of this study was to evaluate the clinical and manometric AB results of three different doses of ***botulinum*** ***toxin*** and two methods of injection for the treatment of chronic idiopathic anal fissure. METHODS: Sixty-nine patients with chronic anal fissure were included in a non-randomized, prospective trial of intrasphincteric injection of ***botulinum*** ***toxin*** . All patients reported ***pain*** postdefecatory anal lasting more than two months. systems were developed for anal ***pain*** , bleeding, and defecatory difficulty. Maximum resting and squeeze anal pressures were determined before and one month after treatment. Twenty-three patients undergoing a 5-U injection of diluted ***botulinum*** ***toxin*** A (BOTOX) on

each side of the anal sphincter (total dose, 10 U) constituted the first group. In a second group 27 patients were injected as previously described, with an additional 5-U injection below the fissure (total dose, 15 U). The 19 patients constituting the third group received a 7-U injection on each side of the anus and below the fissure (total dose, 21 U). All patients were followed up for at least six months. RESULTS: ***Pain*** relief one month after treatment was more evident in the second and the third group (48 percent of patients in the first group, 74 percent in the second group, and 100 percent in the third group). A significant reduction of the mean resting pressure was demonstrated only in Groups II and III (P < 0.05), whereas the mean squeeze pressure significantly decreased in the three groups (P < 0.01 in Group I and P < 0.001 in Groups II and III). Fifty-two percent of the patients in the first group, 30 percent in the second group, and 37 percent in the third group were reinjected during the follow-up period, because of persistence of symptomatology or early relapse. The need for ***surgery*** similar in the first and the second group (17 and 19 percent, respectively) and clearly lower in the last group (5 percent). No serious complications or incontinence attributable to this therapeutic modality developed in any patient. CONCLUSIONS: Intrasphincteric injection of ***botulinum*** ***toxin*** is a reliable new option in the treatment of uncomplicated chronic anal fissure. The healing rate is related to the dose and probably to the number of puncture sites. No permanent damage to the continence mechanism was detected in these patients.

L13 ANSWER 6 OF 16 MEDLINE on STN
ACCESSION NUMBER: 1999362050 MEDLINE
DOCUMENT NUMBER: PubMed ID: 10435697

TITLE: Achalasia: diagnosis and management.

AUTHOR: Vaezi M F

CORPORATE SOURCE: Center for Swallowing and Esophageal Disorders, Cleveland

Clinic Foundation, OH 44195, USA.

SOURCE: Seminars in gastrointestinal disease, ***(1999 Jul)***

Vol. 10, No. 3, pp. 103-12.

Journal code: 9100391. ISSN: 1049-5118.

PUB. COUNTRY: United States DOCUMENT TYPE: (CASE REPORTS)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199909

ENTRY DATE: Entered STN: 19991012

Last Updated on STN: 19991012 Entered Medline: 19990928

AB Achalasia is a primary esophageal motor disorder of unknown cause that produces complaints of dysphagia, regurgitation, and chest The current treatments for achalasia involve the reduction of lower esophageal sphincter (LES) pressure, resulting in improved esophageal emptying. Calcium channel blockers and nitrates, once used as an initial treatment strategy for early achalasia, are now used only in patients who are not candidates for pneumatic dilation or ***surgery*** patients who do not respond to ***botulinum*** ***toxin*** injections. Because of the more rigid balloons, the current pneumatic dilators are more effective than the older, more compliant balloons. graded approach to pneumatic dilation, using the Rigiflex (Boston Scientific Corp, Boston, MA) balloons (3.0, 3.5, and 4.0 cm) is now the most commonly used nonsurgical means of treating patients with achalasia, resulting in symptom improvement in up to 90% of patients. Surgical myotomy, once plagued by high morbidity and long hospital stay, can now be performed laparoscopically, with similar efficacy to the open surgical approach (94% versus 84%, respectively), reduced morbidity, and reduced hospitalization time. Because of the advances in both balloon dilation and laparoscopic myotomy, most patients with achalasia can now choose between these two equally efficacious treatment options.

L13 ANSWER 7 OF 16 MEDLINE on STN ACCESSION NUMBER: 1998436386 MEDLINE

DOCUMENT NUMBER: PubMed ID: 9763895

TITLE: [New concepts on the physiopathology, diagnosis, and

treatment of achalasia].

Nuevos conceptos en fisiopatologia, diagnostico y

tratamiento de la acalasia.

AUTHOR: Carmona-Sanchez R; Valdovinos-Diaz M A

CORPORATE SOURCE: Departamento de Gastroenterologia y, Instituto Nacional de

la Nutricion Salvador Zubiran, Mexico, D.F...

rcarmona@aztlan.innsz.mx

SOURCE: Revista de investigacion clinica; organo del Hospital de

Enfermedades de la Nutricion, ***(1998 May-Jun)*** Vol.

50, No. 3, pp. 263-76. Ref: 213

Journal code: 9421552. ISSN: 0034-8376.

PUB. COUNTRY: Mexico

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: Spanish

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199811

ENTRY DATE: Entered STN: 19990106

Last Updated on STN: 19990106 Entered Medline: 19981119

AΒ OBJECTIVES: To review the most relevant publications on the pathophysiology, clinical manifestations, diagnosis and treatment of esophageal achalasia, and the clinical experience achieved at our institution in order to propose a practical strategy to facilitate the management of these patients. DATA SOURCES: Manual and MEDLINE search of key articles published between January 1986 and July 1997 in addition to publications of our institute of thirty years. STUDY SELECTION: All kinds of publications with substantial clinical experience, new information or research protocols. DATA SYNTHESIS: Achalasia is an uncommon disorder of the myenteric plexus of the esophagus. Main symptoms are dysphagia, regurgitations and chest ***pain*** . The diagnosis is established by manometric criteria. Esophagogram, endoscopy and radionuclide esophageal emptying test help to differentiate other conditions and evaluate the response to treatment. Pharmacotherapy may provide relief to patients with mild symptoms and is useful for patients with high risk of complications. Dilations and myotomy are safe, effective and long lasting procedures. ***Botulinum*** ***toxin*** may be effective in selected cases. Predictive factors of response have been described for each therapy. CONCLUSION: A systematic approach to the management of patients with achalasia is necessary. Introduction of new therapies as ***toxin*** and minimal invasion ***surgery*** ***botulinum*** are changing the therapeutic decisions in this field. Drugs and BoTox are considered the first line of treatment for high risk patients and dilation for patients with no risk. ***surgery***

L13 ANSWER 8 OF 16 MEDLINE ON STN ACCESSION NUMBER: 1998370263 MEDLINE DOCUMENT NUMBER: PubMed ID: 9706766

TITLE: Current therapies for achalasia: comparison and efficacy.

AUTHOR: Vaezi M F; Richter J E

CORPORATE SOURCE: Department of Gastroenterology, The Cleveland Clinic

Foundation, Ohio 44195, USA.

SOURCE: Journal of clinical gastroenterology, ***(1998 Jul)***

Vol. 27, No. 1, pp. 21-35. Ref: 112 Journal code: 7910017. ISSN: 0192-0790.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199810

ENTRY DATE: Entered STN: 19981020

Last Updated on STN: 20000113 Entered Medline: 19981008

AB Achalasia is a primary esophageal motor disorder of unknown etiology producing complaints of dysphagia, regurgitation, and chest ***pain***

. The current treatments for achalasia involve the reduction of lower esophageal sphincter (LES) pressure resulting in improved esophageal emptying. Calcium channel blockers and nitrates, once used as initial

treatment strategy for early achalasia, are now only used in patients who are not candidates for pneumatic dilation or ***surgery*** and those ***toxin*** injections. not responding to ***botulinum*** virtue of the more rigid balloons, the current pneumatic dilators are more effective and have better efficacy than the older more compliant balloons. The graded approach to pneumatic dilation using the Rigiflex balloons (3.0, 3.5, and 4.0 cm) are now the most commonly used nonsurgical means of treating patients with achalasia, resulting in symptom improvement in up to 90% of patients. Surgical myotomy, once with high morbidity and long hospital stay, can now be performed laparoscopically with similar efficacy to the open surgical approach (94% vs. 84%, respectively), reduced morbidity, and hospitalization time. Given the advances in both balloon dilation and laparoscopic myotomy, most patients with achalasia can now choose between these two equally efficacious treatment options.

L13 ANSWER 9 OF 16 MEDLINE ON STN ACCESSION NUMBER: 1998076023 MEDLINE DOCUMENT NUMBER: PubMed ID: 9415541

TITLE: Delayed segmental axial dystonia of the trunk on standing

after lumbar disk operation.

AUTHOR: Ghika J; Nater B; Henderson J; Bogousslavsky J; Regli F

CORPORATE SOURCE: Service de Neurologie, CHUV, Lausanne, Switzerland.

SOURCE: Journal of the neurological sciences, ***(1997 Nov 25)***

Vol. 152, No. 2, pp. 193-7.

Journal code: 0375403. ISSN: 0022-510X.

PUB. COUNTRY: Netherlands
DOCUMENT TYPE: (CASE REPORTS)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199802

ENTRY DATE: Entered STN: 19980217

Last Updated on STN: 19980217 Entered Medline: 19980204

AB We report four patients with various degrees of chronic, tonic, mildly painful, or non-painful, kyphoscolioses in orthostatism, which developed weeks, or months, after one or several laminectomies for lumbar disk hernia, in the absence of recurring radicular ***pain*** or acute lumbar ***pain***. No family history or personal antecedent, of focal or generalized dystonia was found and the dystonia was not seen in any of the four patients pre-operatively, or during the immediate ***post*** - ***operative*** period. Only ill-defined lumbar 'discomfort', unlike their pre-operative lumbago, was reported by the patients, before and during the occurrence of the pathologic trunk posture on standing. Asymmetric lumbar muscle tonic contraction and hypertrophy was found on physical examination. In all patients, the kyphoscoliosis was maximal when standing, partially disappeared when seated, and completely when lying down. One patient responded well to clonazepam, but the other three

showed no improvement with either clonazepam or local injections of ***botulinum*** ***toxin***; L-dopa was ineffective in all cases, and trihexiphenidyle in three.

L13 ANSWER 10 OF 16 MEDLINE ON STN ACCESSION NUMBER: 97374357 MEDLINE DOCUMENT NUMBER: PubMed ID: 9230806

TITLE: Laparoscopic Heller myotomy and fundoplication for

achalasia.

AUTHOR: Hunter J G; Trus T L; Branum G D; Waring J P

CORPORATE SOURCE: Department of Surgery, Emory University School of Medicine,

Atlanta, Georgia, USA.

SOURCE: Annals of surgery, ***(1997 Jun) *** Vol. 225, No. 6,

pp. 655-64; discussion 664-5.

Journal code: 0372354. ISSN: 0003-4932.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 199708

ENTRY DATE: Entered STN: 19970813

Last Updated on STN: 20000303 Entered Medline: 19970806

AB OBJECTIVE: The goal of this study was to review the authors' results with laparoscopic cardiomyotomy and partial fundoplication for achalasia.

SUMMARY BACKGROUND DATA: Pneumatic dilatation and ***botulinum*** (BOTOX) injection of the lower esophageal sphincter largely have replaced cardiomyotomy for treatment of achalasia. After a brief experience with a thoracoscopic approach, the authors elected to perform cardiomyotomy laparoscopically, in combination with a partial fundoplication (anterior or posterior). PATIENTS AND METHODS: Forty patients were treated between July 1992 and November 1996. Thirty patients had previous therapy of achalasia, 21 with pneumatic dilation, 1 with BOTOX, 6 with balloon and BOTOX, and 2 with transthoracic cardiomyotomy. Three patients had previous laparoscopic fundoplication for gastroesophageal reflux. Symptom scores (0 = none to 4 = disabling) ***surgery*** and after were obtained before ***surgery*** Barium swallows and esophagogastroduodenoscopy were performed in all patients. Esophageal motility study was performed in 36 patients. Laparoscopic Heller myotomy and fundoplication was performed through five upper abdominal trocars. A 7-cm myotomy extended 6 cm above the GE junction and 1 cm below the GE junction. A posterior fundoplication was performed in 32 patients, anterior fundoplication in 7 patients, and no fundoplication in 1 patient. Statistical inference was performed with a Wilcoxon signed rank test. RESULTS: Mean operative duration was 199 +/-36.2 minutes. Mean hospital stay was 2.75 days (range, 1-13 days). Dysphagia was alleviated in all but four patients (90%), and regurgitation in all but two patients (95%) (p < 0.001). Chest ***pain*** heartburn improved significantly (p < 0.01) as well. Intraoperative complications included mucosal laceration in six patients and hypercarbia in one. Postoperative pneumonia developed in two patients, and one patient had moderate hemorrhage from an esophageal ulcer 2 weeks after ***surgery*** . CONCLUSIONS: Laparoscopic cardiomyotomy and fundoplication appears to provide definitive treatment of achalasia with rapid rehabilitation and few complications.

L13 ANSWER 11 OF 16 MEDLINE ON STN ACCESSION NUMBER: 95312151 MEDLINE DOCUMENT NUMBER: PubMed ID: 7791942

TITLE: Cervical dystonia: a review the role of botulinum toxin.

AUTHOR: Edwards L L; Normand M M; Wszolek Z K

CORPORATE SOURCE: University of Rochester, Strong Hospital, NY, USA.

SOURCE: The Nebraska medical journal, ***(1995 May)*** Vol. 80,

No. 5, pp. 109-15.

Journal code: 0326156. ISSN: 0091-6730.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199507

ENTRY DATE: Entered STN: 19950807

Last Updated on STN: 19970203 Entered Medline: 19950727

AB Cervical dystonia, although rare in the general population, can severely affect the lives of those afflicted with the disease. Throughout history several theories have been proposed regarding its etiology and pathophysiology, from underlying mental disorders to post-infectious to altered basal ganglia and brainstem function. However, CD remains poorly understood. Because of its similarity to Idiopathic Torsion Dystonia a genetic basic is suspected, but is not proven. Without a true understanding of the disease treatment remains symptomatic, and begins with physical therapy and medications and progresses to consideration of ***surgery*** . These treatment strategies have provided some relief, which is usually less than satisfactory within a short period of time. Recently, the use of ***botulinum*** ***toxin*** has provided significant symptomatic relief of ***pain*** in CD and has been associated with subjective and objective improvement in head posture. This newest therapy, although symptomatic, restores a more normal head posture and ***pain*** relief enabling the individuals with CD to continue to be active and productive participants in life, providing a ray of hope to these people as we continue to search for a better

understanding of the disease process and the development of more effective treatment strategies.

L13 ANSWER 12 OF 16 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on

STN

2000:219442 BIOSIS ACCESSION NUMBER: PREV200000219442 DOCUMENT NUMBER:

Medium-term response characterisation and risk factor TITLE:

analysis of botulinum toxin type A in the management of

spasticity in children with cerebral palsy.

Boyd, Roslyn N. [Reprint author]; Graham, Judith E.A.; AUTHOR (S):

Nattrass, Gary R:; Graham, H. Kerr

Hugh Williamson Gait Laboratory, Royal Children's Hospital, CORPORATE SOURCE:

Flemington Road, Parkville, Melbourne, Victoria, 3052,

Australia

European Journal of Neurology, (***Nov., 1999***) Vol. SOURCE:

6, No. Suppl. 4, pp. S37-S45. print.

ISSN: 1351-5101.

DOCUMENT TYPE: LANGUAGE:

Article English

ENTRY DATE:

Entered STN: 31 May 2000

Last Updated on STN: 5 Jan 2002

botulinum We prospectively studied the medium-term effects of AB ***toxin*** type A (BTX-A) treatment in 197 children with cerebral palsy. Between one and four target muscles were selected according to functional goals and biomechanical assessments, and were injected at multiple sites with BTX-A (BOTOX(R)). The mean total dose administered was 10.5 U BOTOX(R)/kg body weight. In 37% of treatment episodes, children were safely treated with high doses, 12-16 U/kg body weight. Significant improvements were seen in the Modified Ashworth and Tardieu scales at 3 and 12 weeks post-injection, and in muscle length, as determined by joint range of motion, at 3, 12 and 24 weeks post-treatment. Significant improvements in gait were noted using the Modified Physicians' Rating Scale, and joint kinematics and kinetics. Forty-five per cent of children were subsequently managed by repeated BTX-A injections, 17% proceeded to single-level soft tissue ***surgery*** and 38% proceeded ***surgery*** after mean intervals of 12.8, 16.4 and to multi-level 17.3 months, respectively. Side effects were noted in 10 children (6.2% of total treatment occasions) and included local ***pain*** (1.2%), bruising (0.7%), temporary generalised weakness (0.3%), temporary incontinence (1.2%) and pneumonia (1.2%). In summary, BTX-A was safe and effective in the management of spasticity in children with cerebral palsy. Side effects were infrequent, usually minor and self-limiting.

L13 ANSWER 13 OF 16 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER:

2001134943 EMBASE

TITLE: Progress in neuromuscular disorders.

AUTHOR: Novacheck T.F.; Walker K.R.

CORPORATE SOURCE: Dr. T.F. Novacheck, University of Minnesota, Gillette Children's Spec. Healthcare, 200 East University Avenue,

St. Paul, MN 55101, United States. novac001@tc.umn.edu

SOURCE: Current Opinion in Orthopaedics, (2000) Vol. 11, No. 6, pp.

454-460. . Refs: 43

ISSN: 1041-9918 CODEN: COORE

COUNTRY: United States

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 007 Pediatrics and Pediatric Surgery

019 Rehabilitation and Physical Medicine

033 Orthopedic Surgery 037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 30 Apr 2001

Last Updated on STN: 30 Apr 2001

AB The value of gait analysis as a tool for evaluation is affirmed by the number of articles that report its use in gait evaluation. Physical examination measures alone have limited value. Numerous gait analysis parameters have been identified and reported as valid. Joint angular velocity distinguishes normal from spastic gait. Gait analysis can

distinguish between idiopathic toe-walkers and children with cerebral palsy. Gait analysis can evaluate the effects of orthotics, lower extremity ***surgery*** , and postoperative therapy on gait.

Pain relief in long-standing cerebral palsy hip dislocations can be achieved with either prosthetic replacement or proximal femoral resection. Pelvic obliquity may occur in Duchenne muscular dystrophy after fusion of lumbar curves to L5. Functional outcome measures show significant benefit of spinal fusion in patients with Duchenne muscular dystrophy. Circular frame limb lengthening is well tolerated in spina bifida without increased risk. Patients with lower-level myelomeningocele have a delayed onset of walking. Elbow ***surgery*** in arthrogryposis effectively improves function and restores range of motion. COPYRGT. 2000 Lippincott Williams & Wilkins, Inc.

L13 ANSWER 14 OF 16 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 2001041119 EMBASE

TITLE: Pharmacological and surgical options for the treatment of

cervical dystonia.

AUTHOR: Adler C.H.; Kumar R.

CORPORATE SOURCE: Dr. C.H. Adler, Mayo Clinic Scottsdale, Dept. of Neurology,

13400 East Shea Blvd., Scottsdale, AZ 85259, United States

SOURCE: Neurology, (26 Dec 2000) Vol. 55, No. 12 SUPPL. 5, pp.

S9-S14. . Refs: 60

ISSN: 0028-3878 CODEN: NEURAI

COUNTRY: United States

DOCUMENT TYPE: Journal; Conference Article

FILE SEGMENT: 008 Neurology and Neurosurgery

037 Drug Literature Index 038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 15 Feb 2001

Last Updated on STN: 15 Feb 2001

AB Cervical dystonia (CD) is a condition in which patients experience involuntary and abnormal head movements, such as tilting, twisting, or extension, often accompanied by ***pain***. Although the exact pathologic mechanisms underlying idiopathic CD have not yet been identified, a number of therapeutic strategies have been developed to alleviate the symptoms of this disorder. Oral medications include anticholinergic agents, dopamine receptor antagonists, and GABAmimetic agents. These drugs are employed in a trial-and-error manner and have a low rate of efficacy. Localized therapy using ***botulinum***

toxin injections has revolutionized the treatment of CD, providing a high rate of response with a low incidence of side effects. However, as with oral medications, neurotoxin therapy is palliative, not curative, and repeated injections are required. In patients who develop resistance to

botulinum ***toxin*** therapy and who do not achieve an

surgery , the greatest experience and most consistent results have been achieved with selective dorsal ramisectomy. Recent developments in stereotactic ***surgery*** suggest that, for more complex forms of CD or when more widespread dystonia is present, bilateral pallidotomy or globus pallidus deep brain stimulation may be the treatment of choice.

L13 ANSWER 15 OF 16 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 2000020020 EMBASE

TITLE: Medium-term response characterisation and risk factor

analysis of botulinum toxin type A in the management of

spasticity in children with cerebral palsy.

AUTHOR: Boyd R.N.; Graham J.E.A.; Nattrass G.R.; Graham H.K. CORPORATE SOURCE: R.N. Boyd, Hugh Williamson Gait Laboratory, Royal

CORPORATE SOURCE: R.N. Boyd, Hugh Williamson Gait Laboratory, Royal Children's Hospital, Flemington Road, Parkville, Melbourne,

Vic. 3052, Australia. boydr@cryptic.rch.unimelb.edu.au

SOURCE: European Journal of Neurology, (1999) Vol. 6, No. SUPPL. 4,

pp. S37-S45. .

Refs: 41

ISSN: 1351-5101 CODEN: EJNEFL

COUNTRY:

United Kingdom

DOCUMENT TYPE: Journal; Conference Article

FILE SEGMENT: 007 Pediatrics and Pediatric Surgery

008 Neurology and Neurosurgery 037 Drug Literature Index 038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 20 Jan 2000

Last Updated on STN: 20 Jan 2000

We prospectively studied the medium-term effects of ***botulinum*** type A (BTX-A) treatment in 197 children with cerebral palsy. Between one and four target muscles were selected according to functional goals and biomechanical assessments, and were injected at multiple sites with BTX-A (BOTOX.RTM.). The mean total dose administered was 10.5 U BOTOX.RTM./kg body weight. In 37% of treatment episodes, children were safely treated with high doses, 12-16 U/kg body weight. Significant improvements were seen in the Modified Ashworth and Tardieu scales at 3 and 12 weeks post-injection, and in muscle length, as determined by joint range of motion, at 3, 12 and 24 weeks post-treatment. Significant improvements in gait were noted using the Modified Physicians' Rating Scale, and joint kinematics and kinetics. Forty-five per cent of children were subsequently managed by repeated BTX-A injections, 17% proceeded to single-level soft tissue ***surgery*** and 38% proceeded ***surgery*** after mean intervals of 12.8, 16.4 and to multi-level 17.3 months, respectively. Side effects were noted in 10 children (6.2% of total treatment occasions) and included local ***pain*** bruising (0.7%), temporary generalised weakness (0.3%), temporary incontinence (1.2%) and pneumonia (1.2%). In summary, BTX-A was safe and effective in the management of spasticity in children with cerebral palsy. Side effects were infrequent, usually minor and self-limiting.

L13 ANSWER 16 OF 16 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights

reserved on STN

ACCESSION NUMBER: 95370415 EMBASE

DOCUMENT NUMBER: 1995370415

TITLE: Esophageal motility.

AUTHOR: Fennerty M.B.; Garewal H.S.

CORPORATE SOURCE: Section of Hem-Onc and Gastro (111D), Veterans Affairs

Medical Center, 3601 South 6th Avenue, Tuscon, AZ 85723,

United States

SOURCE: Current Opinion in Gastroenterology, (1995) Vol. 11, No. 4,

pp. 339-345. .

ISSN: 0267-1379 CODEN: COGAEK

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; General Review
FILE SEGMENT: 006 Internal Medicine
037 Drug Literature Index
048 Gastroenterology

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 9 Jan 1996

Last Updated on STN: 9 Jan 1996

AB Animal studies continue to provide evidence that nitric oxide is an important mediator of lower esophageal tone with additional effects on the body. Several motility changes occur with age, including aperistalsis of unknown origin, contributing to swallowing difficulties. Motilin agonists, like erythromycin, increase lower esophageal sphincter pressure, suggesting possible benefit in reflux disease. Evaluation of esophageal causes of noncardiac chest ***pain*** seems to be of clinical benefit. Pneumatic dilatation or ***surgery*** are equally effective approaches ***toxin*** to achalasia. ***Botulinum*** injection holds promise in treating this disorder. The primary abnormality in reflux disease seems to be abnormal motility. Scleroderma-like motility abnormalities have been described in breast-fed children of mothers with silicon breast implants.

PATENT INFORMATION:

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L22 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:90086 CAPLUS
DOCUMENT NUMBER:
                        136:156405
TITLE:
                        Method for structural modifying Clostridial
                        neurotoxins for altering biological activity or
                        persistence by leucine-based motifs
INVENTOR(S):
                        Steward, Lance E.; Fernandez-Salas, Ester; Herrington,
                        Todd M.; ***Aoki, Kei Roger***
                        Allergan Sales, Inc., USA
PATENT ASSIGNEE(S):
SOURCE:
                        PCT Int. Appl., 102 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        English
FAMILY ACC. NUM. COUNT: 6
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PATENT NO. KIND DATE APPLICATION NO. DATE -----

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20020131
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                                                                   A 20000721
PRIORITY APPLN. INFO.:
                                              WO 2001-US23122
                                                                   W 20010720
     The invention provides a method for structural modifying ***botulinum***
AB
       ***toxin*** with leucine-based motifs. Modified neurotoxin comprising
     neurotoxin including structural modification, wherein the structural
     modification alters the biol. persistence, such as the biol. half-life
     and/or a biol. activity of the modified neurotoxin relative to an
     identical neurotoxin without the structural modification. In one
     embodiment, methods of making the modified neurotoxin include using
     recombinant techniques. In another embodiment, methods of using the
     modified neurotoxin to treat conditions include treating various
     disorders, neuromuscular aliments and pain.
L22 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                    2001:780715 CAPLUS
DOCUMENT NUMBER:
                          135:298813
TITLE:
                          Method for treating pain by peripheral administration
                          of a neurotoxin
                            ***Aoki, Kei Roger*** ; ***Cui, Minglei***
INVENTOR(S):
                            ***Jenkins, Stephen***
PATENT ASSIGNEE(S):
                          Allergan Sales, Inc., USA
SOURCE:
                          PCT Int. Appl., 62 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:
                          Patent
LANGUAGE:
                          English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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     WO 2001078760
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     WO 2001078760
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20030603

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BR 2001-10030

EP 2005-6626

JP 2001-576060

NZ 2001-521535

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BR 2001010030

JP 2003531127

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EP 1550456

EP 1550456

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IE, FI, CY, TR
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PRIORITY APPLN. INFO.:
                                            EP 2001-924939
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                                            US 2002-199222
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                                                                 A1 20030729
     Methods are disclosed for treating a non-spasm-caused pain by peripheral
AB
     administration to a patient of a therapeutically effective amt. of a
                                              ***toxin***
     neurotoxin, e.g. a
                         ***botulinum***
    ANSWER 3 OF 4 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights
     reserved on STN
ACCESSION NUMBER:
                    2005330292 EMBASE
TITLE:
                                                     ***botulinum***
                    Pharmacology and immunology of
                      ***neurotoxins***
AUTHOR:
                      ***Aoki K.R.***
CORPORATE SOURCE:
                    Dr. K.R. Aoki, Neurotoxins Research Program, Biological
                    Sciences, LLC, 2525 Dupont Drive, Irvine, CA 92612, United
SOURCE:
                    International Ophthalmology Clinics, (2005) Vol. 45, No. 3,
                    pp. 25-37. .
                    Refs: 79
                    ISSN: 0020-8167 CODEN: IOPCAV
COUNTRY:
                    United States
DOCUMENT TYPE:
                    Journal; General Review
FILE SEGMENT:
                    026
                            Immunology, Serology and Transplantation
                            Pharmacology
                    030
                    037
                            Drug Literature Index
                    038
                            Adverse Reactions Titles
LANGUAGE:
                    English
SUMMARY LANGUAGE:
                    English
ENTRY DATE:
                    Entered STN: 25 Aug 2005
                    Last Updated on STN: 25 Aug 2005
AB
       ***Botulinum***
                           ***toxin***
                                         type A has been used in ophthalmology
     since the late 1970s and continues today as a first-line therapy for most
                                            ***surgery***
     focal dystonias and an alternative to
                                                              for strabismus.
       ***Botulinum***
                          ***toxin***
                                         type A injections for facial lines are
    the most frequently performed cosmetic procedures in the United States.
                          ***neurotoxins***
       ***Botulinum***
                                               are biologic products synthesized
    by bacteria as 150-kd proteins in association with several nontoxin
    proteins. The neurotoxin proteins inhibit acetylcholine release at the
    neuromuscular junction through a series of steps that can generally be
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described as binding, internalization, and proteolysis of specific SNARE proteins that are necessary for vesicular neurotransmitter release. Over

AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

time, exocytotic release is reinstituted in the affected neurons and clinical symptoms often return; at this time, reinjection is necessary to maintain benefit. Inhibition of neurotransmitter release from peptidergic neurons has also been described for ***botulinum*** ***toxin*** type A, and it has been speculated that such effects may contribute to its beneficial effects on ***pain*** in certain conditions. As biologic products, ***botulinum*** ***neurotoxins*** are dosed in units of biologic activity, which vary significantly between preparations. Differences have also been described in duration of action between profiles between preparations containing the same serotype (ie, type A) and different serotypes (eg, type B). Immunoresistance may no longer be a significant concern with ***botulinum*** ***toxin*** type A ***botulinum*** (BOTOX), although additional studies with the other ***neurotoxin*** preparations are necessary to determine their rates of neutralizing antibody formation. The pharmacology of ***botulinum*** ***neurotoxins*** continues to be an area of research progress and discovery. Our understanding of these proteins has led not only to advances in clinical aesthetics and therapeutics but also to a greater understanding of cellular membrane fusion activities.

L22 ANSWER 4 OF 4 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 2005033528 EMBASE

TITLE: Natural history of posttraumatic cervical dystonia.

AUTHOR: Frei K.P.; Pathak M.; ***Jenkins S.***; Truong D.D.

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Refs: 25

ISSN: 0885-3185 CODEN: MOVDEA

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LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 4 Feb 2005

1 S L1 (P) L9 0 S L10 NOT L6

19 S L5 AND PY <2001

Last Updated on STN: 4 Feb 2005

AB We studied a case series of 9 patients with posttraumatic cervical dystonia, in whom involuntary muscle spasms and abnormal head postures occurred within 7 days after cervical injury. Patients were examined, treated with ***botulinum*** ***toxin*** as necessary, and were followed up to 5 years. Based on our observations of these cases, we propose that complex regional pain syndrome (CRPS) could represent a variant of posttraumatic cervical dystonia that may develop over time after the initiation of dystonia. .COPYRGT. 2004 Movement Disorder Society.

=> d his

L10

L11

L12

(FILE 'HOME' ENTERED AT 10:37:34 ON 04 APR 2006)

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FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT
     10:38:08 ON 04 APR 2006
L1
          30132 S BOTULINUM (W) (TOXIN OR NEUROTOXIN)
L2
         903941 S PAIN
         101136 S L2 (P) (POST-OPERATIVE OR SURGERY)
L3
            160 S L1 (P) L3
L4
L5
             73 DUPLICATE REMOVE L4 (87 DUPLICATES REMOVED)
L6
          28315 S L2 (10A) (POST-OPERATIVE OR SURGERY)
             36 S L1 (P) L6
L7
             13 DUPLICATE REMOVE L7 (23 DUPLICATES REMOVED)
L8
L9
           2060 S L2 (10A) INCISION?
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223 2002 5 110112 111/110				
L16 1305 S CUI M?/AU				
L17 4265 S JENKINS S?/AU				
18 19299 S L14 OR L15 OR L16 OR L17				
L19 219 S L18 AND L1				
L20 4 S L19 AND L3	•			
L21 4 DUPLICATE REMOVE L20	(0 DUPLICATES REMOVED)			
L22 4 S L21 NOT (L8 OR L13	3)			
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16 S L12 NOT L8 12758 S AOKI K?/AU

1002 S AOKI R?/AU

L13 L14 L15